

Area Dose Measurement

SP

Installation and Startup

Option

Installation and Start-up Instructions

Valid for:

- ARCADIS Varic
- ARCADIS Orbic

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General

Safety information

NOTICE

Risk of minor to serious bodily injury including risk of death; risk of property damage.

- ⇒ The product-specific safety information included in the system manual as well as the safety information contained in the ARTD, part 2, must be observed.
- ⇒ After all work has been completed and all covers have been installed, perform the protective conductor test according to ARTD-002.731.17. The protective conductor resistance must not exceed 0.2 ohms.
- ⇒ Test and setting steps that need to be performed while exposed to radiation are identified with the radiation symbol . Radiation protection clothing must be worn when performing procedures marked with this symbol.

Additional note

These instructions only apply to retrofitting ARCADIS systems with the dose measurement device.

Required parts

- DIAMENTOR MODULE 28 29 054 G 5321

Measuring devices and aids required

- Dosimeter e.g. PTW-Diados 97 17 612 Y0388
- Centering cross 96 60 051 RE999

Tools required

- Toolbox (see ARTD / Part 3)

With laser light localizer

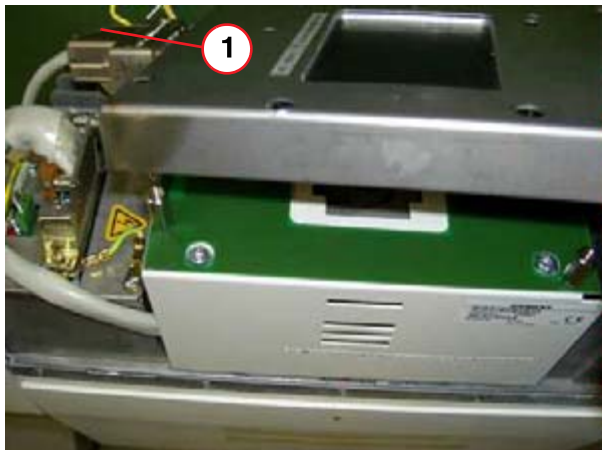


Fig. 1: Measurement chamber connector

Pos. 1 Cable tie

Remove the laser light localizer prior to installing the measurement chamber. Following installation of the measurement chamber, refit the laser light localizer and test/adjust (if necessary) according to "Laser Light Localizer" setting instructions.

Installing the measurement chambers

- Disconnect the ARCADIS mains plug.
- Unscrew the SIREPHOS cover. Carefully loosen the bonding surface at the long sides of the cover.
- Pull the measurement chamber connector (1/Fig. 1 / p. 5) out of the cable tie.
- Place the dose measurement chamber on the SIREPHOS according to (1/Fig. 1 / p. 5). The "Focus" labeling has to point toward the X-ray tube.
- Attach the dose measurement chamber to the SIREPHOS using the screws provided.
- Connect the measurement chamber connector (1/Fig. 1 / p. 5) to the measurement chamber.
- Replace the SIREPHOS cover.

Programming and calibrating the dose area product measurement device

NOTE

The calibration is performed to adjust the dose area product measurement device to the display of the ARCADIS Varic system.

Programming

- Start the Service program and log on.
- Click **<Main System>** and then **<Next>**.
- Click **<Options>** under "Configuration".
- Click **<yes>** under "Diammentor Existing".
- Read the **"TW"** factor from the label on the diammentor chamber and enter into "Constant" field.
- Select **1.0 cGy cm*cm /Pulse** in the "Resolution" field.
- Press the Return key on the keyboard and click **<Save>**.

Checking the programmed value

NOTE

Checking the programmed value activates the internal test of the electronics unit of the dose area product measurement device. This is done to recalibrate the electronics unit of the dose area product measurement device.

- Under "Adjustment", click **<Diammentor>** and then **">"** to access the next page in the Service menu.
- Click the **"click here"** link in the service view. Perform "Diammentor Adjustment" and "Check the accuracy of the diammentor" according to instructions.

Final steps

- In the "Home Menu", click <**Backup & Restore**>. Select "Backup" under "Command" and "(-R-) CD-R" under "Drives".
- Click <**Go**> to start the write operation for the following packages: SW-Settings, Aspia-Settings, Security-Settings, ExamSet, MainSystem.
- Perform partial acceptance tests in accordance with country-specific regulations.

Cover sheet changed